Ignitability of Solids by EPA 1030

Facility Name:_____VELAP ID_____

Assessor Name:_____ Analyst Name:_____ Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Are sample containers completely filled and tightly sealed?	6.1				
Is the test apparatus located in a fume hood and situated perpendicular (90°) to the direction of airflow?	3.4				
Is the fume hood air flow measured with an anemometer and within 0.7-1 meter per second?	3.5, 7.1.3				
Is the Bunsen burner flame adjusted to a height of 6.5-7.5 cm and the temperature verified to be at least 1000°C using a thermocouple?	7.1.4				
For preliminary screening, are samples formed into an unbroken strip or powder train of sample 250 mm long, 20 mm wide, and 10 mm high on a ceramic tile?	7.1.2				
For screening non-metallic waste, is the flame held on the sample strip until the sample ignites or for a maximum of 2 minutes?	7.1.6				
If combustion occurs during screening of non-metallic waste, is a stopwatch started at combustion, and does the analyst note whether combustion propagates up to the 200 mm mark within 2 minutes?	7.1.6				
For screening metallic waste, is the flame held on the sample strip until the sample ignites or for a maximum of 5 minutes?	7.1.7				
If combustion occurs during screening of metallic waste, is a stopwatch started at combustion, and does the analyst note whether combustion propagates up to the 200 mm mark within 20 minutes?	7.1.7				
During screening, if waste does not ignite and propagate combustion either by burning with an open flame or by smoldering along 200 mm of sample strip in the allotted time, is the waste considered not flammable?	7.1.8				
During screening, if the waste propagates burning of 200 mm of the test strip within the allotted time, is the material then evaluated by the burning rate test?	7.1.8				
Notes/Comments:					

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Relevant Aspect of Standards	**Method Reference**	**Y**	**N**	**N/A**	**Comments**
For the burning rate test, are powdered or granular wastes prepared by molding in a powder train mold, or are pasty materials formed into a rope 250 mm long with a cross section of 1 cm^2?	7.2.1				
For the burning rate test, is a 250 mm long test path marked on a ceramic tile, with two additional timing marks at 80 mm and 180 mm from the start of the sample path?	7.2.2				
For the burning rate test, when the test strip or powder train has burned up to the 80 mm mark, is a stopwatch started for timing combustion?	7.2.9				
For the burning rate test, is the timer stopped when the burned strip reaches the 180 mm mark?	7.2.9				
Is the amount of time (in seconds) to burn the 100 mm test strip recorded?	7.2.9				
Is the rate of burning calculated by dividing the length of the burn test strip (100 mm) by the total time (seconds)?	7.2.9				
Are results reported in mm/sec?	7.2.9				
Are non-metallic wastes that have a rate of burning of more than 2.2 mm/sec (or burn time of less than 45 seconds for 100 mm) considered positive for ignitability?	7.2.9, 8.5				
Are metallic wastes that have a rate of burning of more than 0.17 mm/sec (or burn time of less than 10 minutes for 100 mm) considered positive for ignitability?	7.2.9, 8.5				
If preliminary screening indicated that the waste is flammable, is the burn rate test conducted in triplicate?	8.5				
Notes/Comments:					